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# Recombinant human CDK2 protein

Catalog Number: ATGP1180

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-298aa

#### **UniProt No.**

P24941

#### **NCBI Accession No.**

NP 001789.2

#### **Alternative Names**

Cyclin-depentent kinase 2, p33, CDK2

# PRODUCT SPECIFICATION

### **Molecular Weight**

35.0 kDa (306aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

CDK2, also known as cyclin-depentent kinase 2, is a member of the Ser/Thr protein kinase family. It is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and is essential for cell cycle G1/S phase transition. This protein associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by protein phosphorylation. Recombinant human CDK2 protein, fused to His-tag at C-terminus, was expressed in E.



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coli and purified by using conventional chromatography.

# **Amino acid Sequence**

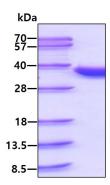
MENFQKVEKI GEGTYGVVYK ARNKLTGEVV ALKKIRLDTE TEGVPSTAIR EISLLKELNH PNIVKLLDVI HTENKLYLVF EFLHQDLKKF MDASALTGIP LPLIKSYLFQ LLQGLAFCHS HRVLHRDLKP QNLLINTEGA IKLADFGLAR AFGVPVRTYT HEVVTLWYRA PEILLGCKYY STAVDIWSLG CIFAEMVTRR ALFPGDSEID QLFRIFRTLG TPDEVVWPGV TSMPDYKPSF PKWARQDFSK VVPPLDEDGR SLLSQMLHYD PNKRISAKAA LAHPFFQDVT KPVPHLRL<LE HHHHHH

## **General References**

Gyuris J., et al. (1993) Cell. 75:791-803 Hannon G.J., et al. (1994) Proc. Natl. Acad. Sci. u.S.A. 91:1731-1735

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

